Sujay Kumar

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Summary

Computer Science undergraduate with strong fundamentals in object-oriented design, data structures, and algorithms. Experienced in building scalable full-stack applications and cloud-native infrastructure. Passionate about DevOps automation and AI integrations. Thrive in ambiguous environments by delivering end-to-end systems from scratch. Actively contribute to open source and write technical blogs at *sujay.is-a.dev/blog*.

Education

Kalinga Institute of Industrial Technology (KIIT)   Bhubaneswar, Odisha
B.Tech in Computer Science and Engineering   *Expected Sep 2026, CGPA: 8.11/10*

Technical Skills

Languages: C, Java, Python, JavaScript, TypeScript
Web: React.js, Next.js, Node.js, Express.js, HTML5, CSS3, Tailwind CSS, FastAPI
DevOps & Cloud: Git, GitHub Actions, Docker, Kubernetes, AWS (EC2), GCP, Cloudflare
Databases & Tools: MongoDB, PostgreSQL, Firebase, Supabase, Prisma, Postman
CS Fundamentals: OOP, Algorithms, Data Structures, Complexity Analysis

Professional Experience

IIT Kharagpur | *Research Collaborator*   Apr 2025 – Jun 2025
- Developed a data pipeline for indexing renewable energy market trends using scraped academic literature (Scopus).
- Integrated generative AI to extract and cluster signaling keywords for forecasting patterns.
- Automated data export and visualized keyword trends to aid energy research.

KIIT E-Cell | *Full Stack Developer*   Sep 2024 – Present
- Led a team of 20 developers to build the organization website (kiitecell.org) and dashboard using MERN stack; boosted student interaction significantly.
- Integrated Google Sheets API for real-time data updates on course engagement.
- Organized and managed a 50+ participant hackathon, handling planning, logistics, and execution.

AGT Pvt Ltd | *Full Stack Developer*   Dec 2024 – Apr 2025
- Built responsive UI components for photonBoxx to optimize mobile UX performance.
- Diagnosed and resolved critical UI bugs, improving app stability and load efficiency.
- Refactored backend for HobbyCue admin panel, streamlining workflows and API interactions.
- Contributions documented: photonboxx-contribution.gitbook.io

Key Projects

ApplySmart (https://www.applysmart.me) | *Next.js, Express, MongoDB, Prisma, AWS, Whisper, OpenAI* 2025
- Developed an AI-powered career support platform with resume scoring, job automation, and smart cover letter generation.
- Engineered an ATS scoring engine aligned with real-world job descriptions using custom NLP pipelines.
- Built automated job form filler and voice-to-text input system via Whisper API integration.

Watch2Learn (https://www.watch2learn.app) | *Next.js, FastAPI, Python, Docker*   2025
- Built a YouTube-based summarization platform that extracts video transcripts and generates study-ready markdown notes.
- Implemented persistent session-based quiz generation to enhance learning retention.
- Designed scalable FastAPI services containerized with Docker.

Generate Folder Tree (VS Code Extension) (Marketplace) | *JavaScript, Node.js, Regex, VS Code API* 2025
- Created a VS Code extension that generates project directories from markdown or indented text.
- Enabled rapid scaffolding for developers with multi-syntax parsing support.
- 100+ downloads and ranked top in its category on the VS Code marketplace.

Extracurricular Achievements

National Basketball Player | *Competitive Athlete*   2018 – Present
- Represented state and college in national tournaments since 2018.

Smart India Hackathon 2024 | *National-Level Competitor*   2024
- Secured Top 50 position among college teams, showcasing problem-solving and collaborative innovation